Demonstration Projects with the Aim of Developing Joint Crediting Mechanism FY2013

JCM Demonstration and Verification Project

Utility Facility Operation Optimization Technology In Indonesia

New Energy and Industrial Technology Development Organization (NEDO)
Azbil Corporation
Utility Facility Operation Optimization Technology is the "RENKEI" control, which is a Japanese leading-edge technology. By using optimization technology, the system determines the optimum selection of and the optimum load allocation for utility equipment, such as boilers, steam turbines, and chillers used in utility facilities, in order to minimize CO$_2$ emissions without any change of utility facility hardware. This technology will realize a great amount of CO$_2$ reduction.

**Summary of Introduced Technology**

- "RENKEI" control
- Optimum operation
- Lower CO$_2$ lower costs
- Stable supply
- Utility and heat supply facilities
- Stable supply for utilities
- Loads
- Purchase electricity
- Substation
- Header
- Pump
- Power use
- Cool/hot water use
- Cool/hot water generator
- Boiler
- Chiller
- Steaming

**Outline of Project**

1. Create a PDD, certified by TPE
2. Development of power facilities–linkage system
3. Connect to Pertaminas’ existing power control system
4. Baseline calculation for this project, development of CO$_2$ reduction program
5. Dissemination activities (Training for energy-saving diagnosis for improvement of utility operations)